

## RECORD OF PERFORMANCE QUALIFICATIONS

MK

### INSTRUCTIONS

Record of Performance Qualifications shall be completed for enlisted personnel of the Coast Guard and Coast Guard Reserve as outlined in the Enlisted Qualifications Manual (COMDTINST M1414.8, series). As proficiency in each performance qualification is demonstrated, the DATE and INITIALS column shall be completed. Personnel are required to demonstrate proficiency in all new qualifications assigned to their rating. Qualifications previously demonstrated, dated and initialed off will not be recertified.

Prior to commencement of ADT, the member's Reserve Unit shall indicate, by circling in red, those qualifications which cannot be completed during inactive duty and should be completed on ADT.

#### RATING

Machinery Technician (Rev. 12-99 – effective for Nov 2000 SWE )

#### ABBREVIATION

MK

#### DATE COMPLETED ALL PERFORMANCE QUALIFICATIONS FOR RATE LEVEL

E-4

E-5

E-6

E-7

E-8

E-9

NAME (Last, First, Middle Initial)

SOCIAL SECURITY NUMBER

| SIGNATURE OF SUPERVISOR |                |          |      |      |
|-------------------------|----------------|----------|------|------|
| DATE                    | NAME/SIGNATURE | INITIALS | RATE | UNIT |
|                         |                |          |      |      |
|                         |                |          |      |      |
|                         |                |          |      |      |
|                         |                |          |      |      |
|                         |                |          |      |      |
|                         |                |          |      |      |
|                         |                |          |      |      |
|                         |                |          |      |      |
|                         |                |          |      |      |
|                         |                |          |      |      |

REMARKS

| RATING: Machinery Technician   | INIT                       | DATE |
|--|----------------------------|------|
| <p>A. ADMINISTRATION</p> <p>4.01 <b>Locate</b> information within the following publications;<br/> a. Naval Engineering Manual, COMDTINST M9000.6 (series)<br/> b. Preventing Maintenance Manuals, Unit specific<br/> c. Naval Ships' Technical Manuals.<br/> d. Manufacturer's Technical Publications<br/> e. CALMS/BOSS/MICA</p> <p>4.02 <b>State</b> the purpose of the Machinery History file IAW COMDTINST M9000.6 (series), and MLC Standard Operating Procedures (SOP).</p> <p>4.03 <b>Interpret</b> Material Safety Data Sheets IAW the MSDS Pocket Dictionary ISBM 0-93169027-7.</p> <p>4.04 <b>Identify</b> labels, symbols, and references associated with a hazardous material IAW COMDTINST M16478(series).</p> <p>4.05 <b>Identify</b> safety precautions associated with hazardous materials IAW COMDTINST M16478(series), NSTM Chapter 670, and MLC Standard Operating Procedures (SOP).</p> <p>4.06 <b>State</b> the purpose of the unit level Hazardous Material Plan IAW COMDTINST M16455.10(series), and COMDTINST M16478(series).</p> <p>4.07 <b>Read</b> and <b>interpret</b> engineering blueprints and schematics IAW NAVEDTRA 10077-F1 (0502-LP-214-4600).</p> <p>5.01 <b>Verify</b> accuracy of engineering department hazardous materials inventory and Material Safety Data Sheet Files (MSDSF) IAW COMDTINST 6260.21 (series) and COMDTINST M16455.10.</p> <p>5.02 Enter approved revisions to engineering publications IAW applicable COMDTNOTES .</p> <p>6.01 <b>Prepare</b> Fuel Oil and Water Report IAW COMDTINST M9000.6(series).</p> <p>6.02 <b>Prepare</b> and <b>maintain</b> a JP-5 Log IAW COMDTINST M3710.2 (series), COMDTINST M5000.3(series), and NSTM Chapter 542.</p> <p>6.03 <b>Prepare</b> and <b>maintain</b> Machinery History Files IAW COMDTINST M9000.6(series), and MLC Standard Operating Procedures (SOP).</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)  | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician   | INIT                       | DATE |
|--|----------------------------|------|
| <p>6.04 <b>Review</b> and <b>plan</b> engineering department Preventive Maintenance Schedules (PMS) IAW COMDTINST M9000.6(series).</p> <p>6.05 <b>Develop/prepare</b> an amendment/change to a Preventive Maintenance Schedule (PMS) Procedure Card IAW COMDTINST M9000.6 (series) and applicable Preventive Maintenance Manual.</p> <p>6.06 <b>Develop</b> Preventive Maintenance Schedule (PMS) requirements for nonstandard/local equipment IAW COMDTINST M9000.6(series), and Manufacture's Technical Manual.</p> <p>6.07 <b>Prepare</b> a Current Ships Maintenance Project (CSMP) IAW COMDTINST M9000,6(series), and MLC Standard Operating Procedures (SOP).</p> <p>6.08 <b>Prepare</b> Shore Station Maintenance Requests (SSMR) IAW COMDTINST M11000.11(series), and MLC Standard Operating Procedures (SOP).</p> <p>6.09 <b>Maintain</b> unit Current Ships Maintenance Project (CSMP) File.IAW COMDTINST M9000.6(series),and MLC Standard Operation Procedures (SOP).</p> <p>6.10 <b>Maintain</b> unit Shore Station Maintenance Request (SSMR) File. IAW COMDTINST M11000.1(series), and MLC Standard Operational Procedures (SOP).</p> <p>6.11 <b>Prepare</b> Cutter Engineering Report IAW COMDTINST M9000.6(series), and MLC Standard Operating Procedures (SOP).</p> <p>6.12 <b>Maintain</b> engineering technical publications and engineering files IAW COMDTINST M9000.6(series), and applicable COMDTNOTES.</p> <p>6.13 Conduct revisions on unit engineering blue prints and drawings, request formal correction/updates using standard revision practices IAW COMDTINST M9000.6(series), and MLC Standard Operating Procedures (SOP).</p> <p>6.14 <b>Update</b> unit's boat record IAW COMDTINST M9000.6(series), and MLC Standard Operating Procedures (SOP).</p> <p>6.15 <b>Prepare</b> a Boat Inspection Report (CG-3022) IAW COMDTINST M9000.6(series), and MLC Standard Operating Procedures (SOP).</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)  | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician  | INIT                       | DATE |
|---|----------------------------|------|
| <p>6.16 <b>Prepare</b> initial, update, correction, and cancel casualty report/message and update file IAW COMDTINST M3501.3(series), NWP 10-1-10, and MLC Standard Operating Procedures (SOP).</p> <p>7.01 <b>Conduct</b> an audit of the Tagout Log IAW COMDTINST M9000.6(series).</p> <p>7.02 <b>Review</b> unit Heat Stress Management Program for accuracy and currency IAW COMDTINST 6270.17(series), COMDTINST M9000.6 (series), and MLC Standard Operating Procedures (SOP).</p> <p>7.03 <b>Prepare</b> a Report of Survey IAW COMDTINST M4500.5(series).</p> <p>7.04 <b>Review</b> specifications for a planned work project for ashore and/or afloat IAW COMDTINST M9000.6(series), COMDTINST M11000.11(series), and MLC Standard Operating Procedures (SOP).</p> <p>7.05 <b>Conduct</b> quality assurance assessments on a contractor's workmanship IAW COMDTINST M11000.11(series), COMDTINST M9000.6(series), and MLC Standard Operating Procedures (SOP).</p> <p>7.06 <b>Prepare</b> and <b>maintain</b> the Inspector's Report of Daily Operations IAW COMDTINST M11000.10(series), COMDTINST M9000.6 (series), and MLC Standard Operating Procedures (SOP).</p> <p>7.07 <b>Prepare</b> an availability work list for drydock and/or dockside availability IAW COMDTINST M9000.6(series), and MLC Standard Operating Procedures (SOP).</p> <p>7.08 <b>Coordinate</b> engineering department duties and unit operational responsibilities IAW COMDTINST M9000.6(series), Unit Instructions, and Unit Engineering Standing Orders.</p> <p>7.09 <b>Prepare</b> Drydocking and Underwater Body Paint Report IAW COMDTINST M9000.6(series).</p> <p>7.10 <b>Prepare</b> a Boatalt<sub>+</sub> request. IAW COMDTINST M9000.6(series), and MLC Standard Operating Procedures (SOP).</p> <p>7.11 <b>Prepare</b> Shipalt<sub>+</sub> request. IAW COMDTINST 9000.6(series).</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)   | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician  | INIT                       | DATE |
|---|----------------------------|------|
| <p><b>B. TRAINING</b></p> <p>5.01 <b>Plan</b> engineering department training IAW COMDTINST M3502.4(series).</p> <p>5.02 <b>Conduct</b> engineering department training by developing a lesson plan IAW COMDTINST M3502.4(series).</p> <p>6.01 <b>Maintain</b> individual and departmental engineering training records IAW COMDTINST M3502.4(series).</p> <p>6.02 <b>Research</b> schools and training availability for engineering personnel IAW COMDTINST M3502.4(series) COMDTINST M1500.10 (series), and Manufacturer's available service training.</p> <p>6.03 <b>Prepare</b> a Short Term Training Request IAW COMDTINST M1500.10(series).</p> <p>6.04 <b>Conduct</b> training on the current environmental regulations governing the operation, maintenance, and repair of air conditioning and refrigeration systems IAW Modern Refrigeration &amp; Air Conditioning Manual (Goodheart &amp; Willcox), 40 CFR Part 82 (Clean Air Act Amendment 1990) Code of federal Regulations, Refrigeration Transition and Recovery Certifications Program for HVACR Technicians Manual.</p> <p>6.05 <b>Impose</b> simulated engineering casualties during drills IAW Unit Casualty Control Manual and NSTM Chapter, 079 Volume III.</p> <p>7.01 <b>Coordinate, schedule, and supervise</b> engineering departmental training IAW Unit Training Program, and COMDTINST M3502.4 (series).</p> <p>7.02 <b>Conduct</b> training on duties and responsibilities of a Board of Survey member IAW COMDTINST M4500.5(series), and COMDTINST M4400.17.</p> <p>7.03 <b>Conduct</b> training on the duties and responsibilities of a Personal Property Custodian IAW COMDTINST M4500.5(series).</p> <p>7.04 <b>Conduct</b> training on the duties and responsibilities of a Hazardous Material Coordinator IAW COMDTINST M16478.1(series), COMDTINST M6260.21(series), NSTM Chapter 670, and MLC Standard Operating Procedure (SOP).</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)   | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician  | INIT                       | DATE |
|---|----------------------------|------|
| <p>7.05 <b>Conduct</b> training on the duties and responsibilities of a Gas Free Petty Officer IAW COMDTINST M9000.6(series), NSTM Chapter 074 Volume III, and CFR 29 S1915.7 Code of Federal Regulations.</p> <p>7.06 <b>Conduct</b> training in confined space entry IAW COMDTINST M9000.6(series) COMDTINST M5100.48, NSTM Chapter 074 Volume III, and CFR 29 S1915.7 Code of Federal Regulations.</p> <p>7.07 <b>Plan</b> and <b>conduct</b> the following shipboard damage control drills IAW Unit Engineering Departmental Instructions, Unit Casualty Control Manual, COMDTINST M9000.6(series), COMDTINST M9000.4 (series), and NSTM Chapter 079 Volume III;</p> <ul style="list-style-type: none"> <li>a. Fire</li> <li>b. Flooding</li> <li>c. Rescue and Assistance</li> </ul> <p>C. COMPUTERS</p> <p>4.01 <b>Access</b> SCAMP/CM PLUS data base on a standard CG workstation and retrieve the following information IAW unit administrative procedures and Coast Guard/manufacture's tutorial and reference guide;</p> <ul style="list-style-type: none"> <li>a. Engineering Parts Inventory data</li> <li>b. Engineering PMS data</li> <li>c. Damage Control information</li> <li>d. Technical Publications indices</li> <li>e. Machinery History</li> </ul> <p>D. SUPPLY</p> <p>5.01 <b>Complete</b> an inventory of consumable and spare parts IAW COMDTINST M4400.19(series).</p> <p>5.02 <b>Prepare</b> applicable forms for ordering and replenishing materials IAW COMDTINST M4400.19(series).</p> <p>6.01 <b>Maintain</b> departmental spare parts inventory IAW COMDTINST M4400.19(series).</p> <p>6.02 <b>Update</b> and <b>maintain</b> unit engineering parts allowance IAW COMDTINST M4400.19(series), and COMDTINST M4441(series).</p> <p>6.03 <b>Compare</b> an order for parts and/or supplies received against the procurement document and report discrepancies to supervisor IAW COMDTINST M4400.19(series).</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)   | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician   | INIT                       | DATE |
|--|----------------------------|------|
| <p>7.01 <b>Maintain</b> engineering departmental supply records and necessary forms for ordering and replenishing materials IAW, and COMDTINST M4400.19(series).</p> <p>7.02 <b>Prepare</b> engineering department budget/Financial Plan Report IAW COMDTINST M9000.6(series), and MLC Standard Operating Procedures (SOP).</p> <p>7.03 <b>Prepare</b> an allowance change request. IAW COMDTINST M4400.19(series).</p> <p>7.04 <b>Prepare</b> a Report of Discrepancy Report (ROD) IAW and COMDTINST M4400.19(series).</p> <p>7.05 <b>Conduct</b> training on the duties and responsibilities of a Personal Property Custodian IAW COMDTINST M4500.5(series).</p> |                            |      |
| E. AIR CONDITIONING AND REFRIGERATION  |                            |      |
| <p>4.01 <b>Identify</b> the principles of operation for an air conditioning a refrigeration system IAW NSTM Chapter 516, and Modern Refrigeration &amp; Air Conditioning Manual (Goodheart &amp; Willcox).</p>   |                            |      |
| <p>5.01 <b>Defrost</b> a refrigeration system IAW Unit Operating Instructions, NSTM Chapter 516, Modern Refrigeration &amp; Air Conditioning Manual (Goodheart &amp; Willcox), and Manufacturer's Technical Manual.</p>  |                            |      |
| <p>5.02 <b>Troubleshoot</b> and <b>repair</b> a heating, ventilation, and/or air conditioning (HVAC) air handler unit IAW NSTM Chapter 516, and Modern Refrigeration &amp; Air Conditioning Manual (Goodheart &amp; Willcox).</p>  |                            |      |
| <p>5.03 <b>Clean</b> the watersides of a water cooled refrigeration/air conditioning condenser IAW Preventive Maintenance Schedule Manual (PMS), NSTM Chapter 516, Modern Refrigeration &amp; Air Conditioning Manual (Goodheart &amp; Willcox), and Manufacturer's Technical Manual.</p>  |                            |      |
| <p>5.04 <b>Pump</b> down an air conditioning and/or a refrigeration system IAW NSTM Chapter 516, Modern Refrigeration &amp; Air Conditioning Manual (Goodheart &amp; Willcox), and Manufacturer's Technical Manual.</p>  |                            |      |
|  |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)  | <b>SOCIAL SECURITY NO.</b> |      |



| RATING: Machinery Technician   | INIT                              | DATE |
|--|-----------------------------------|------|
| <p>6.01 <b>Evacuate/recover</b> and <b>recharge</b> a refrigeration/AC system under direct supervision of a certified AC&amp;R technician IAW NSTM Chapter 516, and Modern Refrigeration and Air Conditioning Manual (Goodheart &amp; Willcox).</p> <p>6.02 <b>Inspect</b> and <b>renew</b> a valve in a refrigeration/AC system under direct supervision of a certified AC&amp;R technician IAW NSTM Chapter 516, and Modern Refrigeration &amp; Air Conditioning Manual (Goodheart &amp; Willcox).</p> <p>6.03 <b>Inspect</b> and <b>renew</b> a liquid line dehydrator cartridge in an air conditioning or refrigeration system under direct supervision of a certified AC&amp;R technician IAW NSTM Chapter 516, Modern Refrigeration and Air Conditioning Manual (Goodheart &amp; Willcox).</p> <p>7.01 <b>Troubleshoot</b> and <b>recommend</b> corrective actions on a defective air conditioning/refrigeration system IAW NSTM Chapter 516, Modern Refrigeration &amp; Air Conditioning Manual (Goodheart &amp; Willcox), and Manufacturer's Technical Manual.</p> |                                   |      |
| <p>F. ELECTRICAL</p> <p>4.01 <b>Fill</b> new starter/storage battery with electrolyte and/or distilled water and charge IAW NSTM Chapter 313, Preventive Maintenance Schedule Manual (PMS).</p> <p>4.02 <b>Check</b> the specific gravity and interpret the readings on a starting/storage battery IAW NSTM Chapter 313, Preventive Maintenance Schedule Manual (PMS).</p> <p>4.03 <b>Connect</b> starting/storage batteries for parallel and series operations IAW NSTM Chapter 313, Preventive Maintenance Schedule Manual (PMS).</p> <p>4.04 <b>Troubleshoot</b> electrical circuits using a multimeter IAW NSTM Chapter 313, Preventive Maintenance Schedule Manual (PMS Modern Refrigeration and Air Conditioning) (Goodheart &amp; Willcox), and Manufacturer's Operating Instructions.</p>  |                                   |      |
| <p><b>NAME</b> (Last, First, Middle Initial)</p>   | <p><b>SOCIAL SECURITY NO.</b></p> |      |

| RATING: Machinery Technician   | INIT                       | DATE        |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
|--|----------------------------|-------------|-----------|----------|------------|----------|----------|----------------|-----------|--|------------|--|----------|--|--------------|--|----------|--|--------------------------------|------------------------|-----------------------|--------------------------|---------------------|--|--|
| <p>4.05 <b>Identify</b> the following electrical schematic symbols IAW NAVEDTRA 10077(series).</p> <table border="0"> <tr> <td>a. Fuse</td> <td>j. Resistor</td> </tr> <tr> <td>b. Switch</td> <td>k. Meter</td> </tr> <tr> <td>c. Breaker</td> <td>l. Diode</td> </tr> <tr> <td>d. Relay</td> <td>m. Transformer</td> </tr> <tr> <td>e. Ground</td> <td></td> </tr> <tr> <td>f. Battery</td> <td></td> </tr> <tr> <td>g. Lamps</td> <td></td> </tr> <tr> <td>h. Generator</td> <td></td> </tr> <tr> <td>i. Motor</td> <td></td> </tr> </table> <p>5.01 <b>Place</b> on line, unit power generation system IAW Unit Operating Instructions, NSTM Chapters 300, 310, 320, and Manufacturer's Technical Manual.</p> <p>5.02 Troubleshoot and repair electrical power distribution system. IAW Preventive Maintenance Schedule, Manufacturer's Technical Manuals and NSTM Chapter 3.</p> <p>5.03 <b>Troubleshoot/Renew</b> the electrical starter on an engine IAW Preventive Maintenance Schedule, and Manufacturer's Technical Manuals.</p> <p>6.01 <b>Troubleshoot</b>, and <b>recommend</b> corrective actions to the following IAW applicable Naval Engineering Drawings, Technical Publication Drawings, and Manufacturer's Technical Manuals;</p> <table border="0"> <tr> <td>a. Alternator/generator system</td> </tr> <tr> <td>b. Engine alarm system</td> </tr> <tr> <td>c. Bilge alarm system</td> </tr> <tr> <td>d. Fire detection system</td> </tr> <tr> <td>e. Starting systems</td> </tr> </table> <p>G. FIREFIGHTING AND DEWATERING PUMPS</p> <p>4.01 <b>Identify</b> the principals of operation of a centrifugal pump IAW NSTM Chapter 503.</p> <p>4.02 <b>Align</b> a pump coupling and shaft IAW NSTM Chapter 503, Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical Manual.</p> <p>5.01 <b>Troubleshoot</b> and make repairs to a defective standard CG portable firefighting pump IAW NAVSEAS S6225-BW-MM0-010, and Manufacturer's Technical Manual.</p> | a. Fuse                    | j. Resistor | b. Switch | k. Meter | c. Breaker | l. Diode | d. Relay | m. Transformer | e. Ground |  | f. Battery |  | g. Lamps |  | h. Generator |  | i. Motor |  | a. Alternator/generator system | b. Engine alarm system | c. Bilge alarm system | d. Fire detection system | e. Starting systems |  |  |
| a. Fuse  | j. Resistor                |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| b. Switch  | k. Meter                   |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| c. Breaker   | l. Diode                   |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| d. Relay   | m. Transformer             |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| e. Ground  |                            |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| f. Battery   |                            |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| g. Lamps   |                            |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| h. Generator   |                            |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| i. Motor   |                            |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| a. Alternator/generator system   |                            |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| b. Engine alarm system   |                            |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| c. Bilge alarm system  |                            |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| d. Fire detection system   |                            |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| e. Starting systems  |                            |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |
| <b>NAME</b> (Last, First, Middle Initial)  | <b>SOCIAL SECURITY NO.</b> |             |           |          |            |          |          |                |           |  |            |  |          |  |              |  |          |  |                                |                        |                       |                          |                     |  |  |

| RATING: Machinery Technician   | INIT                       | DATE |
|--|----------------------------|------|
| <p>5.02 <b>Troubleshoot</b> and <b>make repairs</b> to a defective standard CG portable dewatering pump IAW COMDTINST M10470.10(series), Manufacturer's Technical Manual.</p> <p>5.03 <b>Troubleshoot</b> and <b>make repairs</b> to a defective fixed firefighting pump IAW NSTM Chapter 503, and Manufacturers Technical Manual.</p> <p>H VALVES</p> <p>4.01 <b>Identify</b> the principals of operation and use for the following valves IAW NSTM Chapter 505;</p> <ul style="list-style-type: none"> <li>a. Check</li> <li>b. Butterfly</li> <li>c. Gate</li> <li>d. Globe</li> <li>e. Needle</li> <li>f. Ball</li> <li>g. Petcock</li> <li>h. Pressure regulating</li> <li>i. Relief</li> <li>j. Temperature controlled/regulating</li> <li>k. Thermostatic</li> </ul> <p>5.01 Hydrostatically <b>test</b> a valve IAW COMDTINST M9000.6(series), NSTM Chapter 505, MLC Standard Specifications, and MIL-STD-777.</p> <p>5.02 <b>Conduct</b> maintenance on the following valves by inspecting, <b>checking</b>, and <b>adjusting</b> IAW COMDTINST M9000.6(series), NSTM Chapter 505, Preventive Maintenance Schedule Manual (PMS), MLC Standard Specifications, MIL-STD-777, and Manufacturer's Instructions;</p> <ul style="list-style-type: none"> <li>a. Pressure regulating</li> <li>b. Relief</li> <li>c. Temperature controlled/regulating</li> <li>d. Thermostatic</li> </ul> <p>I TUBING, PIPING, AND HOSES</p> <p>4.01 <b>Describe</b> how tubing is sized by identifying tubing size for a given task and selecting the proper fittings IAW NSTM Chapter 505, Modern Refrigeration &amp; Air Conditioning (Goodheart &amp; Willcox) and Vickers Industrial Hydraulic- Manual.</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial )   | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician   | INIT                       | DATE |
|--|----------------------------|------|
| <p>4.02 <b>Conduct</b> installation and repair on a tubing system by cutting and bending tubing using single/double flare tubing IAW Chapter 505, Modern Refrigeration &amp; Air Conditioning (Goodheart &amp; Wilcox) and Vickers Industrial Hydraulics Manual.</p> <p>4.03 <b>Describe</b> how piping is sized by identifying piping size for a given task and selecting the proper fittings IAW NSTM Chapter 505, Modern Refrigeration &amp; Air Conditioning (Goodheart &amp; Willcox) and Vickers Industrial Hydraulics Manual.</p> <p>4.04 <b>Install</b> fittings using a thread sealant IAW NSTM Chapter 505, Modern Refrigeration &amp; Air Conditioning ( Goodheart &amp; Willcox) and Vickers Industrial Hydraulics Manual.</p> <p>4.05 <b>Identify</b> and inspect various flexible hose material types and select the proper use for each IAW NSTM Chapter 556/505, Fluid Power Basics Bulletin 0239-B1 (Parker Motion and Control), Aeroquip Global Products Bulletin JA131, Vickers Industrial Hydraulics Manual, Preventive Maintenance Schedule Manual (PMS), COMDTINST M9000.6 (series) and Manufacturer Technical Manual.</p> <p>4.06 <b>Install</b> flange shielding to a piping system using proper tools and materials IAW COMDTINST M9000.6 (series), and NSTM Chapter 505.</p> <p>4.07 <b>Interpret</b> piping system color codes IAW COMDTINST M10360.3 (series).</p> <p>J. AUXILIARY EQUIPMENT</p> <p>4.01 <b>Identify</b> the principals of operation for the following auxiliary machinery IAW NSTM Chapters 531, Vol III, 533, 581, 562, 565, 581, 582, 589, 593, 9340, and Manufacturer's Technical Manuals;</p> <p style="padding-left: 20px;">a. Air compressor (NSTM 551)</p> <p style="padding-left: 20px;">b. Incinerator (NSTM 593)</p> <p style="padding-left: 20px;">c. Fin stabilizer (NSTM 565)</p> <p style="padding-left: 20px;">d. Vacuum sewage system (NSTM 593) Manufacturer's Technical Manual.</p> <p>5.01 <b>Maintain</b> potable water tanks and/or system by conducting required treatments and testing IAW COMDTINST M5100.47, and NSTM Chapter 533.</p> <p>5.02 <b>Troubleshoot</b> and repair deck machinery IAW COMDTINST M9000.6 (series), NSTM Chapter 581, 582, 589, and Manufacturer's Technical Manual</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)  | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician   | INIT                       | DATE |
|--|----------------------------|------|
| <p>5.03 Make repairs to the following major appliances IAW NSTM Chapters 655, 9340, and Manufacturer's Technical Manuals;</p> <ul style="list-style-type: none"> <li>a. Dishwasher/Sanitizer</li> <li>b. Washer</li> <li>c. Dryer</li> <li>d. Garbage disposal</li> </ul> <p>5.04 <b>Troubleshoot</b> and <b>repair</b> the following auxiliary systems IAW Chapters 503, 510, 531, Volume III, 551, 555, 562, 565, 593, Preventive Maintenance Manuals, and Manufacturer's Technical Manuals;</p> <ul style="list-style-type: none"> <li>a. Pneumatic system (NSTM 551)</li> <li>b. Ventilation system (NSTM 510)</li> <li>c. Sewage system (NSTM 593)</li> <li>d. Steering system (NSTM 562)</li> <li>e. Fixed/portable pump system (NSTM 503, 555)</li> </ul> <p>6.01 <b>Troubleshoot</b> and <b>recommend</b> corrective action for each of the following auxiliary systems IAW NSTM Chapters 503, 510, 531 Volume III, 551, 555, 562, 565, 593, and Manufacturer's Technical Manuals;</p> <ul style="list-style-type: none"> <li>a. Pneumatic system (NSTM 551)</li> <li>b. Ventilation system (NSTM 510)</li> <li>c. Sewage system (NSTM 592)</li> <li>d. Steering system (NSTM 562)</li> <li>e. Fixed/portable pump system (NSTM 503, 555)</li> </ul> <p>K. BOILERS, EVAPORATORS AND WASTE HEAT EQUIPMENT</p> <p>4.01 <b>Identify</b> the principals of operation for the following equipment IAW NSTM Chapters 220, 221, 233, 531 Volume III, 593, Coast Guard TP-2670, Coast Guard TP-541-0200 Coast Guard TP-541-0101, and NAVSEA 0951-LP-031-0100 and Manufacturer's Technical Manual;</p> <ul style="list-style-type: none"> <li>a. Boiler (NSTM 221)</li> <li>b. Evaporator (NSTM 531 Volume III)</li> <li>c. Waste heat recovery system (NSTM 233)</li> <li>e. Reverse osmosis (NSTM 531 Vol III)</li> <li>f. Water purification (NSTM 531, 533)</li> </ul> <p>5.01 <b>Inspect</b> and test distilling plant for steam and vacuum leaks IAW NSTM Chapter 531 Volume I, Coast Guard TP-2670, and Manufacturer's Technical Manual.</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)  | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician  | INIT                       | DATE |
|---|----------------------------|------|
| <p>5.02 <b>Inspect</b> the following components on an auxiliary boiler and adjust/repair/replace the component IAW Chapter 221, Preventive Maintenance Schedule Manual (PMS), Manufacturer's Technical Manual.</p> <ul style="list-style-type: none"> <li>a. Diffuser</li> <li>b. Blower assemblies</li> <li>c. Fuel pump</li> <li>d. Electrodes</li> <li>e. Fuel nozzles</li> <li>f. Flame detector ring</li> <li>g. Hand hole covers and gaskets</li> <li>h. Photoelectric eye</li> </ul> <p>5.03 Clean boiler water sides on an auxiliary boiler IAW NSTM Chapter 221, Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical Manual.</p> <p>5.04 <b>Clean</b> boiler fire sides on an auxiliary boiler IAW NSTM Chapter 221, Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical Manual.</p> <p>5.05 <b>Inspect</b> an evaporator and repair/replace defective components IAW NSTM Chapter 531 Volume I, Coast Guard TP-2670, and Manufacturer's Technical Manual.</p> <p>5.06 <b>Chemically</b> treat evaporator feed water IAW COMDTINST M9000.6 (series), NSTM Chapter 531 Vol I, Coast Guard TP-2670, Preventive Maintenance Schedule Manual(PMS), and Manufacturer's Technical Manual.</p> <p>5.07 Troubleshoot and repair a reverse osmosis system IAW NSTM Chapter 5310 Volume III and Manufacturer's Technical Manuals</p> <p>6.01 Conduct setting of safety devices on auxiliary boilers IAW NSTM Chapters 221, 505, and Preventive Maintenance Schedule Manual (PMS).</p> <p>6.02 <b>Monitor</b> and <b>adjust</b> all water level controls, firing controls and safety controls on an auxiliary boiler IAW NSTM Chapters 220, 221, and Manufacturer's Technical Manual.</p> |                            |      |
| <b>NAME</b> ( Last, First, Middle Initial)  | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician  | INIT                       | DATE |
|---|----------------------------|------|
| <p>6.03 <b>Troubleshoot</b> and <b>recommend</b> corrective repairs for each equipment and/or system IAW NSTM Chapters 221, 531 Vol I, NavSea 0951-LP-031-0010, and Manufacturer's Technical Manual;</p> <ul style="list-style-type: none"> <li>a. Auxiliary boiler</li> <li>b. Evaporator</li> <li>c. Waste heat recovery system</li> <li>d. Reverse osmosis system</li> </ul> <p>7.01 <b>Clean</b> and <b>inspect</b> distilling plant flash chambers and shells for cracks IAW NSTM Chapter 531 Vol I, and Manufacturer's Technical Manual.</p> <p>7.02 <b>Chemically</b> clean distilling plant to remove scale buildup, inspect and recommend any additional corrective action IAW COMDTINST M9000.6(series), NSTM Chapter 531 Vol I, Coast Guard TP-2670, and Technical Manual.</p> <p>L. OILY WATER SEPARATORS</p> <p>4.01 <b>Identify</b> the principals of operation for an oily water separator (OWS) IAW NSTM Chapter 593, Preventive Maintenance Schedule Manual, , Manufacturer's Technical Manual.</p> <p>4.02 <b>Maintain</b> an OWS IAW NSTM Chapter 593, Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical Manual.</p> <p>5.01 <b>Troubleshoot</b> and <b>repair</b> an OWS IAW Manufacturer's Technical Manual.</p> <p>6.01 <b>Troubleshoot</b> and <b>recommend</b> corrective repairs for an OWS unit/system IAW Coast Guard TP-541-0200, Coast Guard TP-0101, and Manufacturer's Technical Manual.</p> <p>M. LUBE OIL, FUEL OIL, AND JP-5 FUEL SYSTEMS</p> <p>4.01 <b>Identify</b> principals of operation of a lube oil purifier.</p> <p>4.02 <b>Conduct</b> lube oil viscosity tests using a visgauge or falling ball comparator IAW COMDTINST 9000.6(series), and NSTM Chapter 262, and Manufacturer's Technical Manual.</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)   | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician  | INIT                       | DATE |
|---|----------------------------|------|
| <p>5.01 <b>Conduct</b> maintenance on a fuel/oil purification system by inspecting, repairing/renewing and adjusting defective components IAW Preventive Maintenance Schedule Manual, NSTM Chapters 262, 541, 542, and Manufacturer's Technical Manual.</p> <p>5.02 <b>Conduct</b> maintenance on a fuel/oil transfer system by inspecting, repairing/renewing, and adjusting defective components IAW NSTM Chapters 262, 541, 542, and Manufacturer's Technical Manual.</p> <p>5.03 <b>Conduct</b> water and sediment test on JP-5 fuel IAW COMDTINST M9000.6 (series), Preventive Maintenance Schedule Manual (PMS), and NSTM Chapter 542.</p> <p>5.04 Replenish a shipboard oil storage system IAW COMDTINST M9000.6 (series), Unit Operating Instructions, Unit Engineering Standing Orders, and NSTM Chapter 262.</p> <p>6.01 <b>Organize, supervise, and monitor</b> an internal shipboard fuel/oil transfer IAW COMDTINST M9000.6 (series) COMDTINST M3710.3(series), Unit Operating Instructions, Unit Engineering Standing Orders, and NSTM Chapters 541, 542.</p> <p>6.02 <b>Prepare and submit</b> a lube oil sample for spectro-analysis testing IAW COMDTINST M9000.6(series) and MLC Standard Operating Procedures (SOP).</p> <p>7.01 <b>Interpret</b> viscosity and spectro-anaylsis test results, and determine corrective actions as required IAW COMDTINST M9000.6 (series), NSTM Chapter 262, and Manufacturer's Technical Manual.</p> <p>7.02 <b>Organize, supervise, and monitor</b> a shipboard fueling detail IAW Unit Operating Instructions, Unit Engineering Standing Orders, and NSTM Chapters 541, 542.</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)   | <b>SOCIAL SECURITY NO.</b> |      |



| RATING: Machinery Technician  | INIT                       | DATE |
|---|----------------------------|------|
| <p>N. BEARINGS AND SEALS</p> <p>4.01 <b>Identify</b> the principals of operation for the following bearings IAW NSTM Chapter 2430, and 9430;</p> <ul style="list-style-type: none"> <li>a. Ball</li> <li>b. Roller</li> <li>c. Precision insert</li> <li>d. Needle</li> </ul> <p>4.02 <b>Identify</b> the principals of operation for commonly used gaskets, packing, and seals IAW NSTM Chapters 078 Vol I, 244, and 9430.</p> <p>4.03 <b>Troubleshoot</b> and <b>renew</b> defective gaskets, packing, and seals IAW NSTM Chapter 078 Vol I.</p> <p>5.01 <b>Troubleshoot</b> and <b>renew</b> the following defective bearings IAW NSTM Chapters 244, and 9430;</p> <ul style="list-style-type: none"> <li>a. Ball</li> <li>b. Roller</li> <li>c. Needle</li> <li>d. Babbitt/bushing</li> </ul> <p>6.01 <b>Supervise</b> the renewal of defective bearings IAW NSTM Chapters 233, 244, 9430, Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical Manual.</p> <p>6.02 <b>Inspect</b> and <b>adjust/renew</b> thrust bearings and collars IAW NSTM Chapters 244, 9430, Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical Manual.</p> <p>O. MECHANICAL SKILLS</p> <p>4.01 <b>Maintain</b> strainers and filters in the following systems IAW NSTM Chapters 505, 551, Preventive Maintenance Schedule Manual (PMS), and Manufacturer's technical Manual;</p> <ul style="list-style-type: none"> <li>a. Fuel (NSTM 505)</li> <li>b. Oil (NSTM 505)</li> </ul> <p>4.02 <b>Conduct</b> a brazing/silver soldering task IAW NSTM Chapters 074 Vol I, 505, 516, and Modern Refrigeration &amp; Air Conditioning (Goodheart &amp; Willcox).</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)   | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician   | INIT                       | DATE |
|--|----------------------------|------|
| <p>4.03 <b>Conduct</b> a soft soldering task IAW NSTM 505, 516, 074 Vol 1 and Modern Refrigeration &amp; Air Conditioning (Goodheart &amp; Willcox).</p> <p>4.04 <b>Conduct</b> various engineering task using the following hand tools, and measuring instruments IAW NAVEDTRA 10082-B2 (Tools and Their Uses), and Navy Technical Manual M6290-A-J-MAN-010 (Use and Care of Hand tools and Measuring Tools);</p> <ul style="list-style-type: none"> <li>a. Inside and outside micrometers</li> <li>b. Dial indicators</li> <li>c. Inside and outside calipers</li> <li>d. Taps, dies, and thread files</li> <li>e. Piston ring expander</li> <li>f. Drill Press</li> <li>g. Easy Outs</li> <li>h. Gauges; depth feeler, go/no-go, telescoping</li> <li>i. Helicoil kit (NSTM 075)</li> <li>j. Personal protection equipment (PPE) (NSTM 077)</li> <li>k. Puller kit (bearing and gear)</li> <li>l. Hand tachometer</li> <li>m. Snap ring pliers</li> <li>n. Machinist's Rule</li> <li>o. Torque Wrench</li> </ul> <p>4.05 <b>Renew</b> shaft packing on a fixed and/or portable pump IAW COMDTINST M10470.10(series), NSTM Chapters 244, 555, and Manufacturer's Technical Manual.</p> <p>4.06 <b>Fabricate</b> a gasket and o-ring using proper tools and procedures IAW NSTM Chapter 078 Vol I.</p> <p>4.07 <b>Cut and install</b> a sight glass using proper tools and procedures IAW NSTM Chapter 221.</p> <p>4.08 <b>Identify</b> the principles of operations for the following gauges IAW NSTM Chapter 504, Modern Refrigeration &amp; Air Conditioning (Goodheart &amp; Willcox and Vickers Industrial Hydraulics Manual;</p> <ul style="list-style-type: none"> <li>a. Temperature</li> <li>b. Duplex</li> <li>c. Compound</li> <li>d. Vacuum</li> <li>e. Manometer</li> </ul> <p>5.01 <b>Separate and install</b> parts using a hydraulic/arbor press and/or portable hydraulic jack/press IAW Unit Operating Instructions, and Manufacturer's Technical Manual.</p> <p>6.01 <b>Conduct</b> a hydrostatic test IAW COMDTINST M9000.6(series), NSTM Chapter 221, and MLC Standard Operation Procedures (SOP)/Standard Specifications.</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)  | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician  | INIT                       | DATE |
|---|----------------------------|------|
| <p>6.02 <b>Plug</b> a defective heat exchanger tube IAW COMDTINST M9000.6(series), NSTM Chapter 254, and MLC Standard Operation Procedure (SOP)/Standard Specifications.</p> <p>P. HYDRAULICS</p> <p>4.01 <b>Identify</b> the principals of operation for a hydraulic system IAW NSTM Chapter 556, Vickers Industrial Hydraulics Manual, and Industrial Fluid Power Volume 1 (Womack Education).</p> <p>4.02 <b>Identify</b> the principals of operation for the following hydraulic components IAW NSTM Chapter 556, and Vickers Industrial Hydraulics Manual;</p> <ul style="list-style-type: none"> <li>a. Reservoirs (open &amp; pressurized)</li> <li>b. Pumps (vane, piston, &amp; gear types)</li> <li>c. Motors (vane, piston, &amp; gear types)</li> <li>d. Cylinders (single &amp; double acting)</li> <li>e. Control valves (directional control and pressure control)</li> </ul> <p>4.03 <b>Identify</b> the basic hydraulic component symbols IAW Vickers Industrial Hydraulics Manual, and Industrial Fluid Power Volume 1 (Womack Education).</p> <p>5.01 <b>Conduct</b> maintenance on a hydraulic oil system by changing and adding oil, and bleeding air IAW COMDTINST M9000.6(series), NSTM Chapter 556, Vickers Industrial Hydraulics Manual, Industrial Hydraulics Technology Bulletin 0232-B1 (Parker Motion and Control), Preventive Maintenance Schedule Manual (PMS) and Manufacturer's Technical Manual.</p> <p>5.02 <b>Draw</b> a hydraulic oil sample for the purpose of spectro-anaylsis testing IAW COMDTINST M9000.6(series) NSTM Chapter 556, and Preventive Maintenance Schedule Manual (PMS).</p> <p>6.01 <b>Troubleshoot</b> and <b>renew</b> a positive displacement hydraulic pump IAW NSTM Chapter 556, and Manufacturer's Technical Manual.</p> <p>6.02 <b>Troubleshoot</b> and <b>repair/renew</b> a directional control valve IAW NSTM Chapter 556 and Manufacturer's Technical Manual.</p> <p>6.03 <b>Conduct</b> an operational test on a directional control valve IAW NSTM Chapter 556, and Manufacturer's Technical Manual.</p> <p>6.04 <b>Troubleshoot</b> and <b>repair</b> a hydraulic cylinder IAW NSTM Chapter 556, and Manufacturer's Technical Manual.</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)   | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician  | INIT                              | DATE |
|---|-----------------------------------|------|
| <p>6.05 <b>Conduct</b> an operational test on a hydraulic cylinder IAW NSTM 556, and Manufacturer's Technical Manual.</p> <p>6.06 <b>Troubleshoot</b> and <b>repair/renew</b> a hydraulic motor IAW NSTM Chapter 556, and Manufacturer's Technical Manual.</p> <p>6.07 <b>Conduct</b> an operational test on a hydraulic motor IAW NSTM Chapter 556, and Manufacturer's Technical Manual.</p> <p>6.08 <b>Prepare</b> a hydraulic oil sample for spectro-anaylsis testing IAW COMDTINST M9000.6(series), NSTM Chapter 556, and Preventive Maintenance Schedule Manual.</p> <p>7.01 <b>Interpret</b> hydraulic oil spectro-anaylsis test results, and determine corrective actions as required IAW COMDTINST M9000.6 (series), NSTM Chapter 556, Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical Manual.</p>   |                                   |      |
| <p>Q. WATCHSTANDING</p> <p>4.01 <b>State</b> the purpose of the Engineering Standing Orders IAW COMDTINST M9000.6(series).</p> <p>4.02 <b>State</b> the purpose of the Engineering Officers Night Order Book IAW COMDTINST M9000.6(series).</p> <p>4.03 <b>Conduct</b> corrective actions for casualty control drills IAW COMDTINST M9000.6(series), COMDTINST M16114.6(series), NSTM Chapter 079 Volume III and Unit Casualty Control Manual.</p> <p>6.01 <b>Supervise</b> an engineering watch station IAW Unit Instructions, Engineering Officer Standing Orders, COMDTINST M9000.6(series), and NSTM Chapter 079 Volume III.</p> <p>6.02 <b>Direct</b> and <b>coordinate</b> an engineering duty section IAW Unit Instructions, Engineering Officer Standing Orders, and NSTM Chapter 079 Volume III.</p> <p>6.03 <b>Review</b> operating parameters on unit engineering logs IAW Unit Instructions, Engineering Officer Standing Orders, COMDTINST M9000.6(series), and Manufacturer's Technical Manual.</p> |                                   |      |
| <p><b>NAME</b> (Last, First, Middle Initial)</p>  | <p><b>SOCIAL SECURITY NO.</b></p> |      |

| RATING: Machinery Technician  | INIT                       | DATE |
|---|----------------------------|------|
| <p>6.04 <b>Evaluate</b> and <b>qualify</b> an engineering watchstander IAW Unit Instructions, Engineering Officer Standing Orders, applicable PQS Manual, COMDTINST M9000.6(series), and NSTM Chapter 079 Volume III.</p> <p>R. OUTBOARDS, INBOARD/OUTBOARDS AND OUTDRIVES</p> <p>4.01 <b>Identify</b> the principals of operation for the following IAW, Manufacturer's Technical/Service Manuals;</p> <ul style="list-style-type: none"> <li>a. Outboard engine</li> <li>b. Outdrive unit</li> </ul> <p>4.02 <b>Conduct</b> basic maintenance on an outboard engine IAW Preventive Maintenance Schedule manual (PMS), and Manufacturer's Technical/Service Manual.</p> <p>5.01 Change-out an outboard engine on a small boat IAW Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical/Service Manual.</p> <p>5.02 <b>Troubleshoot/Renew</b> a defective hydraulic power trim unit IAW the Manufacturer's Technical/Service Manual.</p> <p>5.03 <b>Conduct</b> a tune-up on an outboard engine (gas and/or diesel) IAW Preventive Maintenance Schedule manual (PMS), and Manufacturer's Technical/Service Manual.</p> <p>S. INTERNAL COMBUSTION ENGINES</p> <p>4.01 <b>Identify</b> the principals of operation for the following internal combustion engines IAW NSTM Chapters 233, 234 and Manufacturer's Technical Manuals;</p> <ul style="list-style-type: none"> <li>a. Gasoline engine (2 &amp; 4 stroke)</li> <li>b. Diesel engine (2 &amp; 4 stroke)</li> <li>c. Gas turbine</li> </ul> <p>4.02 <b>Disassemble/assemble</b> an internal combustion engine under direct supervision IAW Manufacturer's technical Manual.</p> <p>4.03 <b>Inspect</b> the components of an internal combustion engine and the engine under direct supervision IAW COMDTINST M9000.6 (series), NSTM Chapters 233, 234 and Manufacturer's Technical Manual.</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)   | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician   | INIT                       | DATE |
|--|----------------------------|------|
| <p>4.04 <b>Conduct</b> a tune-up of a diesel engine under direct supervision IAW Manufacturer's Technical Manual.</p> <p>5.01 <b>Operate</b> a main propulsion diesel engine by lining up, starting, monitoring, and securing IAW Unit Operating Instructions, and Manufacturer's Technical Manual.</p> <p>5.02 <b>Take</b> and <b>record</b> required engine performance readings IAW COMDTINST M9000.6(series), Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical Manual.</p> <p>5.03 <b>Check</b> condition of diesel engine mounts IAW Preventive Maintenance Schedule (PMS), and Manufacturer's Technical Manual.</p> <p>6.01 <b>Supervise</b> the disassembly and assembly of an internal combustion engine IAW Manufacturer's Technical Manual.</p> <p>6.02 <b>Take</b> and <b>record</b> crankweb deflection and thrust readings IAW COMDTINST M9000.6(series), NSTM Chapter 233, Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical Manual.</p> <p>6.03 <b>Adjust</b> mechanical, hydraulic governors, and overspeed trips on a diesel engine IAW Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical Manual.</p> <p>6.04 <b>Troubleshoot</b> and <b>recommend</b> corrective actions to repair a defective internal combustion engine IAW COMDTINST M9000.6 (series), NSTM Chapters 233, 234, and Manufacturer's Technical Manual.</p> <p>6.05 <b>Conduct</b> maintenance on an internal combustion engine by removing, inspecting, and replacing/repairing major engine components IAW Preventive Maintenance Schedule Manual(PMS), NSTM Chapters 233, 234, and Manufacturer's Technical Manuals.</p> <p>7.01 Graph engine/gas turbine performance readings, interpret and analyze data to determine maintenance requirement IAW COMDTINST M9000.6 (series), Preventive Maintenance Schedule Manual (PMS), NSTM Chapters 233, 234, and Manufacturer's Technical Manual.</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial )   | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician   | INIT                       | DATE |
|--|----------------------------|------|
| <p>T. TURBINE</p> <p>7.01 <b>Conduct</b> maintenance on a gas turbine engine IAW Preventive Maintenance Schedule Manual (PMS) and Manufacturer's Technical Manual.</p> <p>8.01 <b>Conduct</b> performance test on a gas turbine engine IAW NSTM Chapter 234, Preventive Maintenance Schedule Manual (PMS), COMDTINST M9000.6 (series) and Manufacturer's Technical Manual.</p> <p>8.02 <b>Conduct</b> borescope inspection on a gas turbine IAW NSTM Chapter 234, Preventive Maintenance Schedule Manual (PMS) and Manufacturer's Technical Manual.</p> <p>8.03 <b>Conduct</b> hot section inspection on a gas turbine engine IAW Preventive Maintenance Schedule Manual (PMS) and Manufacturer's Technical Manual.</p> <p>8.04 <b>Test</b> overspeed trips on a gas turbine engine IAW Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical Manual.</p> <p>U. MECHANICAL POWER TRANSMISSION EQUIPMENT</p> <p>4.01 <b>Identify</b> the principals of operation for the following systems IAW NSTM Chapters 562, 583, 9420, and Manufacturer's Technical Manual;</p> <ul style="list-style-type: none"> <li>a. Reduction gears on small boats and cutters</li> <li>b. Pneumatic, fluid, and mechanical clutches and clutch packs.</li> <li>c. Controllable pitch propellers</li> <li>d. Electric, hydraulic, and mechanical steering</li> </ul> <p>4.02 <b>Inspect</b> and adjust shaft packing IAW NSTM Chapters 244, 9430, Preventive Maintenance Schedule Manual(PMS), and Manufacturer's Technical Manual.</p> <p>4.03 <b>Identify</b> packing size and pack a packing gland IAW Applicable Naval Engineering Drawings, NSTM Chapters 244, 9430, and Manufacturer's Technical Manual.</p> <p>6.01 <b>Check</b> engine and propulsion shaft alignment and align as necessary IAW NSTM Chapters 244, 9430 and applicable Naval Engineering Drawings.</p> <p>6.02 <b>Conduct</b> maintenance on main propulsion equipment by removing, inspecting, and replacing/repairing defective components IAW Preventive Maintenance Schedule Manual(PMS) and Manufacturer's Technical Manual.</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)  | <b>SOCIAL SECURITY NO.</b> |      |

| RATING: Machinery Technician  | INIT                       | DATE |
|---|----------------------------|------|
| <p>6.03 <b>Conduct</b> maintenance on pneumatic clutches and fluid clutch packs by inspecting, cleaning, and adjusting IAW Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical Manual.</p> <p>6.04 <b>Conduct</b> maintenance on pressure plates and friction disks by disassembling, inspecting, and adjusting or replacing IAW Preventive Maintenance Schedule Manual (PMS), and Manufacturer's Technical Manual.</p> <p>6.05 <b>Conduct</b> maintenance on a strut bearing by recording clearances, removing, inspecting, and renewing IAW NSTM Chapters 244, 9430, Preventive Maintenance Schedule Manual (PMS) and Manufacturer's Technical Manual.</p> <p>6.06 <b>Conduct</b> a propeller inspection by, taking required measurements and recording IAW COMDTINST M9000.6 (series) NSTM Chapter 245, and applicable Naval Engineering Drawings.</p> <p>6.07 <b>Conduct</b> a shaft inspection by taking run-out measurements, and recording IAW COMDTINST M9000.6(SERIES), NavSea Technical Manual 0919-LP-008-0010, NavSea Technical Manual 0900-LP-014-1010, NSTM Chapters 244, 9430, and applicable Naval Engineering Drawings.</p> <p>6.08 <b>Conduct</b> a rudder inspection by taking required measurements, and recording findings IAW NSTM Chapters 244, 562, 9430 Preventive Maintenance Schedule Manual (PMS), and Manufacturer's.</p> |                            |      |
| <b>NAME</b> (Last, First, Middle Initial)   | <b>SOCIAL SECURITY NO.</b> |      |



